

# **Clinical assessment of children with long COVID syndrome**

## **Supplementary Appendix**

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**Table S1.** List of the 50 Long COVID Complaints Inquired in the Online Survey and the Corresponding Organ-System Categories.

<b>GENERAL</b>	<b>GASTROINTESTINAL</b>
Fever, low fever	Constipation
Loss of appetite	Diarrhoea
Persistent fatigue	Nausea/ vomiting
Weight loss	Problems swallowing
<b>NEUROLOGIC</b>	Stomach pain
Can't move and/or feel one side of body or face	<b>EAR-NOSE-THROAT &amp; OPHTHALMOLOGIC</b>
Dizziness/light headedness	Problems with hearing
Fainting/ blackouts	Reduced taste
Forgetfulness	Problems seeing
Tremors	Reduced smell
Numbness or tingling	ringing in ears
Persistent headache	<b>MUSCULOSKELETAL</b>
Problems with balance	Joint pain/swelling
Seizures	Persistent muscle pain
Slowness of movement	Swollen ankles
Weakness in limbs	Pain on breathing
Problems passing urine	Jerking of limbs
Sleeping less	Problems with gait/ falls
Sleeping more	Stiffness of muscles
<b>MENTAL</b>	<b>PULMONARY</b>
Anxiety	Persistent dry cough
Behaviour change	Shortness of breath
Depressed mood	<b>DERMATOLOGIC</b>
Loss of interest/ pleasure	Lumpy lesions on toes/ COVID toes
Trouble in concentrating	Skin rash
Hallucinations	<b>REPRODUCTIVE</b>
<b>CARDIOLOVASCULAR</b>	Dysmenorrhea
Chest pain	Erectile dysfunctions
Palpitations	
Post-exertional malaise	

**Table S2.** COVID Testing in Long COVID Children Before and After Their First Visit at Our Clinic\*

<b>Time of testing</b>		<b>Tested Positive (n)</b>	<b>(%)</b>
Tested before the first visit at our clinic <sup>1</sup>	Total	80/83	(96)
	PCR	48/55	(87)
	RAT (LFD)	15/32	(47)
	IgG	26/27	(96)
Tested at the first visit	IgG	78/88	(89)

\* PCR denotes Polimerase Chain Reaction, RAT rapid antigen test, LFD lateral flow device, and IgG denotes Anti-SARS-CoV-2 IgG

<sup>1</sup> The total sum of patients may exceed 88 since one child could be tested with more than one method.

**Table S3.** Medical History of the 97 Children with Long COVID

Characteristics		Overall, n	(%)	Male, n	(%)	Female, n	(%)
Children included		89		33		56	
<b>Acute COVID disease</b>							
Severity							
	Mild	84	(94)	31	(94)	53	(95)
	Moderate	5	(6)	2	(6)	3	(5)
	Severe	0	(0)				
Level of medical care needed							
	none	34	(38)	10	(30)	24	(43)
	homecare / telemedicine	41	(46)	17	(52)	24	(43)
	ambulatory care	11	(11)	5	(15)	6	(11)
	hospital admission	3	(3)	1	(3)	2	(3)
Medication given during the acute COVID							
	None	60	(67)	24	(73)	36	(64)
	Yes	29	(33)	9	(27)	20	(36)
	Antibiotics	11					
	Corticosteroids	3					
<b>Medical history at the first visit</b>							
Pre-existing conditions							
	Total, including allergies	37	(42)	13	(39)	24	(43)
	Total, without allergies	24	(27)	8	(24)	16	(29)
	Allergies	25	(28)	10	(30)	15	(27)
	Chronic Lung disease	7	(8)	4	(12)	3	(5)
	Digestive disease	6	(7)	0	(0)	6	(10)
	Mental Health conditions	6	(7)	4	(12)	2	(4)
	Endocrine/metabolic diseases	4	(4)	0	(0)	4	(7)
	<i>Autoimmune thyroiditis</i>	1	(1)	0	(0)	1	(2)
	<i>Diabetes mellitus (Type I)</i>	1	(1)	0	(0)	1	(2)
	Neurologic disorders	3	(3)	1	(3)	2	(4)
	Immune System disorders	2	(2)	0	(0)	2	(4)
	Musculoskeletal diseases	1	(1)	0	(0)	1	(2)
	Gynaecologic diseases	1	(1)	-	-	1	(2)
	Was currently taking medications	26	(29)	10	(30)	16	(29)
	Coronavirus vaccination (before the first visit)	0	(0)				

**Table S4.** List of physical findings

<b>Physical finding</b>	<b>n</b>	
mild abdominal tenderness	17	19,1
obesity	5	5,6
pharyngeal erythema	5	5,6
cervical lymphadenopathy	3	3,4
dizziness	3	3,4
tachycardia	3	3,4
marbled skin	2	2,2
rash	2	2,2
skin discolouration	2	2,2
strias	2	2,2
systolic cardiac murmur	2	2,2
acnes on skin	1	1,1
asthenia	1	1,1
blurred vision	1	1,1
bradykinesia	1	1,1
diplopia	1	1,1
hip arthralgia	1	1,1
muscular weakness	1	1,1
musculoskeletal chest pain	1	1,1
nystagmus	1	1,1
ocular discomfort	1	1,1
onychoclasia	1	1,1
paresthesia	1	1,1
pharyngeal erythema	1	1,1
powerless/feeble	1	1,1
purpura	1	1,1
renal pain	1	1,1
Romberg test positive	1	1,1
skin mass	1	1,1
skull tenderness	1	1,1
tachypnoe	1	1,1
unilateral abnormal breath sounds	1	1,1
unilateral ptosis	1	1,1

**Table S5.** List of abnormal findings (See separately in the Excel file named: „Supp\_Table\_S5”)

**Table S6 – Results of the 6 minute walk test**

Patient	Presence of symptoms (yes/no)	6mWT symptoms 1 - subjective 2 - had to stop (objective symptom)	Meters walked	Pulse at rest (beat/minute)	Saturation at rest (%)	Pulse at the end (beat/minute)	Saturation at the end (%)
1	Yes	1	94	88	99	106	93
2	No		512	0	0	103	99
3	No		490	0	0	93	99
4	Yes	1	300	79	98	97	99
5	No		420	105	99	0	90
6	Yes	1	395	83	99	91	98
7	Yes	1	500	115	99	148	96
8	No		490	104	97	150	98
9	No		450	100	98	0	99
10	No		583	110	98	174	99
11	No		560	103	99	140	99
12	No		396	90	99	110	97
13	Yes	1	452	75	97	142	98
14	No		424	89	99	124	97
15	Yes	1	0	98	99	147	97
16	Yes	1	450	115	99	164	97
17	No		338	77	98	86	98
18	Yes	1	556	105	98	128	98
19	Yes	1	336	101	98	113	99
20	Yes	1	400	100	99	113	97
21	No		425	92	99	122	98
22	Yes	1	315	98	99	105	99
23	No		525	63	98	132	97
24	Yes	2	504	88	99	107	99
25	Yes	1	616	71	98	123	91
26	Yes	1	384	138	99	152	98
27	No		320	93	99	153	98
28	No		550	67	98	130	97
29	Yes		425	97	98	147	98

**Figure S1.** The frequency of complaints in organ categories and connected physical findings (see in separate “Supp\_Figure\_S1”)